

February 14, 1997

B

Bruce Linton VT DEC

103 South Main Street

West Building

Waterbury, VT 05671-0404

RE:

VT DEC SMS # 96-2060

Christy's Market

Route 100, West Dover, VT CEA File # 3016-96-2

Dear Mr. Linton:

Enclosed please find the Initial Site Investigation Report for the Christy's Market site on Route 100 in West Dover, VT. If you have any questions regarding this document, you can reach me at our Vermont branch office phone number (802) 295-5222.

Sincerely,

CEA, Inc.

Paul S. Renouf Branch Manager

PSR:ssl

Enc:

Site Investigation Report

pc:

Mr. Tom Wilburn Christy's Market 27 Christy's Drive Brockton, MA

127 HARTWELL STREET WEST BOYLSTON, MA 01583 PHONE: 508-835-8822

FAX: 508-835-8812

REMEDIATION L.S.P. SERVICES SITE ASSESSMENTS EMERGENCY RESPONSE



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INITIAL SITE INVESTIGATION REPORT

Christy's Market SMS # 96-2060 Route 100 West Dover, VT

Prepared for: Christy's Market, Inc. 22 Christy's Drive Brockton, MA 02401

Prepared by: CORPORATE ENVIRONMENTAL ADVISORS, INC.

P.O. Box 1246 White River Junction, VT 05001 (802) 295-5222

> February 11, 1997 CEA Ref. File #3016-96-2

127 HARTWELL STREET WEST BOYLSTON, MA 01583 PHONE: 508-835-8822

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REMEDIATION
L.S.P. SERVICES
SITE ASSESSMENTS
EMERGENCY RESPONSE

Executive Summary

Corporate Environmental Advisors, Inc. of White River Junction, Vermont, performed an environmental site investigation of the Christy's Market located on Route 100 in West Dover, Vermont. The purpose of the investigation was to define the degree and extent of soil and groundwater contamination at the site, and to identify sensitive receptors which might be impacted by such contamination.

On September 17, 1996 through September 19, 1996, CEA personnel observed the replacement and upgrading of fuel lines serving the five underground storage tanks (UST) on site. Single wall steel piping was replaced with double wall Enviro-flex piping. Soil samples were collected beneath the former piping and from the excavation sidewalls during soil excavation performed on the south side of the USTs. Soil samples were field screened with a Thermo Environmental Instruments Model 580B OVM photo-ionization detector (PID). The maximum concentration of Volatile Organic Compounds (VOC) detected during field screening was 341 ppm. Approximately 30 cubic yards were stockpiled on site.

Two soil borings were advanced at the site on October 29, 1996 and groundwater monitoring wells were installed in the borings (CEA-5 and CEA-6). Auger refusal was reached at 10 feet at CEA-5 and at 6.5 feet at CEA-6. Split-spoon soil samples were retrieved from the approximate level of groundwater and field screened with a PID. No VOCs were detected in the soil samples from the boring for monitoring well CEA-5 and a reading of 476 ppm was obtained from the soil sample from the boring for monitoring well CEA-6.

Laboratory analysis of groundwater samples from CEA-5 and CEA-6 along with the previously installed CEA-1, CEA-3 and MS-3 revealed the presence of BTEX and MTBE compounds in site groundwater. Depth to groundwater was measured to be between 3.63 and 4.50 below ground surface on October 30, 1996. Groundwater appears to flow in an easterly direction across the site.

Christy's Market is served by a private drinking water well and municipal sewer. There are numerous drinking water wells located within a half-mile radius of the site, including one that is located across Route 100 approximately 100 feet northeast of site. The site building does not have a basement. The North Branch of the Deerfield River is located approximately 125 feet northeast of the site.

Based on the data gathered to date, CEA recommends that: all existing monitoring wells be sampled on a quarterly basis; two addition downgradient monitoring wells be installed; a visual assessment of the North Branch of the Deerfield be conducted during sampling events; data be gathered on a drinking water well across Route 100; a bail test be conducted on three site monitoring wells; and the approximately 30 cubic yards of stockpiled soil be screened on a semi-annual basis.



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1. INTRODUCTION

This investigation was conducted by Corporate Environmental Advisors, Inc. of White River Junction, Vermont (CEA) to define the degree and extent of soil and groundwater contamination at Christy's Market on Route 100, West Dover, Vermont ("the site") and to identify sensitive receptors which may be impacted by such contamination.

2. SITE DESCRIPTION

2.1. The Site and Vicinity

Route 100 and Windy Hill Road. A Site locus based on the West Dover, Vermont USGS Topographical Quadrangle is presented in Attachment 1 of this report. The map shows the site to be at an elevation of approximately 1700 feet above mean sea level. The site is located at 42° 56′ 37″ N, 72° 51′ 44″W.

The properties adjacent to the site consist primarily of commercial development with a vacation condominium development southwest of the site. Commercial development lies to the northwest, northeast and southeast of the site. See Attachment 4 for a complete list of abutting properties and a property owners mailing list. The North Branch of the Deerfield River is located approximately 125 feet northeast of the site. A Site Vicinity map, based on the West Dover Tax Map, is presented in Figure 2 of this report.



2.2. Site History

According to the West Dover Assessor's Office, the subject property has been used as a fuel dispensing station and market since 1985. Prior to that time the site was an undeveloped lot. In addition to Christy's Market, the on-site building is occupied by a Vermont State liquor store. The site is connected to the town sewage treatment plant. Water is supplied to the site by a private well located approximately 160 feet southwest of the southwest wall of the Market building.

CUPGLADEENS

2.3 Project Background

On September 17, 1996 through September 19, 1996, CEA personnel observed the replacement and upgrading of fuel lines serving the five underground storage tanks (UST) on site. Single wall steel piping was replaced with double wall Enviro-flex piping. See Figure 3 for site layout and UST data.

Soil samples were collected beneath the former piping approximately every 20 linear feet. In addition, soil samples were collected from the excavation sidewalls during soil excavation performed on the south side of the USTs. Soil samples collected for field screening analysis were collected in clean laboratory provided containers and capped with aluminum foil. The samples were shaken and allowed to sit for several minutes prior to measuring volatile organic compounds (VOC) using a Thermo Environmental Instruments Model 580B OVM photo-ionization detector (PID). The PID was calibrated to an isobutylene standard prior to collecting the soil samples. Soil sample depth and PID readings are presented below in Table 1. Soil sample locations are illustrated on Attachment 3.



Table 1

Soil Sample location	Depth in Feet	PID Reading (ppm)
1	2	41
2	2	341
3	2	15
4	2	0
5	3	0
6	2.5	0
7	3	234
8	4	227
9	3	59
10	3	0
11	6	246
12	6	286
13	6	291
14	6	280
15	6	308
16	6	258
17	3	8

During excavation of the soil performed to replace the UST piping on September 17 through September 19, 1996, no soil staining or hydrocarbon odors were noted in excavated soils from the northern portion of the USTs or from the pipelines adjacent to the southern pump island. Soil staining and hydrocarbon odors were noted in the soil adjacent to the fill ports for the diesel fuel, super unleaded, and mid-grade unleaded USTs. This soil was excavated down to the top of each UST and stockpiled on and under polyethylene sheeting, pending remediation or disposal. Soil staining and hydrocarbon odors were noted beneath the UST piping located at the south end of the mid-grade unleaded and super unleaded USTs. Approximately 30 cubic yards of soil were excavated from beneath the former piping and stockpiled on and under polyethylene sheeting. PID analysis of soil samples collected from the sidewalls of the final excavation indicated levels of VOCs between 258 ppm and 308 ppm.

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3. SUBSURFACE EXPLORATIONS AND ANALYSES

3.1. Monitoring Well Installation

On July 17, 1990 Armour Shield Drilling installed two monitoring wells (MS-1 and MS-3) on the subject property for real estate purposes. See Attachment 1 for boring logs/monitoring well reports.

On May 14, 1993 CEA personnel, as part of a limited site assessment, installed four monitoring wells (CEA-1, CEA-2, CEA-3 and CEA-4) on the subject property for real estate purposes. See Attachment 1 for boring logs/monitoring well reports. Each of the borings were advanced to a depth of at least five feet into the observed groundwater table to allow access to soil and groundwater for collection and analysis.

Two soil borings were advanced at the site on October 29, 1996 and groundwater monitoring wells were installed in the borings (CEA-5 and CEA-6). The borings were advanced with a hollow stem auger drill rig by Drilex of West Boylston, MA and overseen by CEA personnel. During the advancement of the soil boring for monitoring well CEA-5, auger refusal was reached at approximately 10 feet below ground surface (bgs). During the advancement of the soil boring for monitoring well CEA-6, auger refusal was reached at approximately 6.5 feet bgs. Soil boring/monitoring well construction logs are presented in Attachment 1 of this report. Monitoring well locations are shown in the Groundwater Gradient with Analytical Data map in Figure 3.

3.2. Field Screening of Soil Samples

On July 17, 1990, field screening of soil samples with a PID during the installation of monitoring wells MS-1 and MS-2 revealed a maximum reading of 4.2 ppm at a depth of 6-7 feet in MS-1 and a maximum reading of 40.2 at a depth of 5 feet in MS-3.

On May 14, 1993, field screening of soil samples with a PID during the installation of monitoring wells CEA-1, CEA-2, CEA-3 and CEA-4 revealed a maximum reading of 6.0 ppm at 5-7 feet in CEA-1 and less than 1 ppm in CEA-2, CEA-3 and CEA-4.



During drilling on October 29, 1996, split-spoon soil samples were obtained from each of the boreholes and field screened for VOCs with a PID (Thermo Environmental Instruments model 580B OVM). Soil samples were retrieved from the approximate level of groundwater (approximately 5 feet bgs) to evaluate the extent of groundwater impact associated with the release. No VOCs were detected in the soil samples from the boring for monitoring well CEA-5. A reading of 476 ppm was obtained from the soil sample from the boring for monitoring well CEA-6.

3.3. Laboratory Analysis of Groundwater Samples

On October 30,1996, groundwater samples were collected from monitoring wells CEA-1, CEA-3, CEA-5, CEA-6 and MS-3. Free phase product was observed in monitoring well CEA-2 and therefore no sample was collected. Groundwater samples were submitted for laboratory analysis for VOCs by EPA Method 8020 plus MTBE and Total Petroleum Hydrocarbons (TPH) by EPA Method 8100M. Samples were obtained with standard plastic disposable bailers after the removal of three well volumes of water from each well. All samples were refrigerated and sent to Spectrum Analytical, Inc. in Agawam, Massachusetts for analysis.

Concentrations of contaminants detected are presented in Table 2 along with the corresponding VT DEC Groundwater Quality Enforcement Standards. The standard cited for MTBE is the Vermont Health Advisory Level (VHAL) because there is no Enforcement Standard for MTBE.

Contaminants tested for but not listed in Table 2 were not detected in the samples collected on October 30, 1996. In addition, results of the laboratory analysis from sampling events conducted in 1990 and 1993 have been included in the following table. A complete laboratory report for the October 30, 1996 sampling event is presented in Attachment 2.



Table 2

				1 2	ible 2						
Date	Compound	Standard	CEA-1	CEA-2	CEA-3	CEA-4	CEA-5	CEA-6	MS-1	MS-2	MS-3
10/30/96	Benzene	5.0	43	FP	ND	NS	1.5	1,300	NS	NS	21
	Toluene	2420	7.9	FP	ND	NS	ND	2,400	NS	NS	4.2
	Ethylbenzen e	680	33	FP	ND	NS	ND	230	NS	NS	18
	Xylenes	400	9.4	FP	ND	NS	ND	3,400	NS	NS	4,4
	MTBE	40	600	FP	ND	NS	21	3,600	NS	NS	370
	ТРН	none	. 1	FP	7.3	NS	0.3	20	NS	NS	0.7
5/20/93	Benzene	5.0	12	ND	ND	ND			ND	ND	8
	Toluene	2420	ND	ND	ND	מא			ND	ND	ND
	Ethylbenzen e	680	141	ND	ND	ND			ND	ND	158
- •	Xylenes	400	209	ND_	ND	ND			ND	ND	209
	МТВЕ	40	118	ND	ND _	ND			ND	ND	90
	TPH	none	ND_	ND	ND	ND			ДИ	ND	מא
7/18/90	Benzene	5.0							<1	<1	40
	Toluene	2420						<u> </u>	<1	<1	142
	Ethylbenzen e	680							<1	2	< 50
	Xylenes	400							<1	14	1,137
	мтве	40							<1	<1	< 50
	TPH	none							NS	NS	NS

VOC results in ug/L and TPH results in mg/L

FP = Free Phase Product

ND = Not Detected above detection limit of laboratory method.

NS = Not sampled

Site drinking water well was sampled on May 20, 1993 via EPA Method 502.2 and TPH 418.1: VOC and TPH = ND



4. SITE HYDROGEOLOGY

4.1. Surficial Geology

Soils encountered during drilling consisted primarily of fine to medium grained sand with some gravel. More detailed soil information is noted on the soil boring/monitoring well construction logs in Attachment 1 of this report. During the fuel line replacement and excavation soils were noted to consist of sand with some gravel and some minor layers of dense clay.

4.2. Groundwater Levels and Flow Direction

Depth to groundwater was measured at each well using an electronic interface probe accurate to 0.01 feet. Groundwater elevations are presented in Table 3. On October 30, 1996, groundwater elevations ranged from 91.10 feet in CEA-1 to 93.05 feet in CEA-3, representing 1.95 feet in change in groundwater elevation across the site. Groundwater flow direction was determined to be generally to the east. A groundwater gradient map constructed from the October 30, 1996 data is presented in Figure 3. During excavation at the site in September of 1996 groundwater was observed at an approximate depth of six feet below ground surface.

Table 3

Date		CEA-1	CEA-2	CEA-3	CEA-5	CEA-6	MS-3
10/30/9 6	Roadbox elevation	94.73	96.12	96.72	NS	NS	95.22
	Depth to GW	3.63	4.15	3.67	4.50	4.44	4.00
:	GW elevation	91.10	91.97	93.05	NS	NS	91.22

The hydraulic gradient between CEA-3 and CEA-1 was calculated to be approximately 0.16 cm/cm. Based on an hydraulic conductivity value of 10^{-2}



0,0106

cm/sec and an effective porosity estimate of 35% for sand, groundwater velocity was determined using the following variation of Darcy's Equation.

GW_{vel} = Hydraulic Gradient x Hydraulic Conductivity/Effective Porosity

 $GW_{vel} = 0.16 \text{ gm/cm x 0.01 cm/sec/0.35}$

 $GW_{vel} \stackrel{\checkmark}{=} -4.57 \times 10^{-3} \text{ cm/sec}$

 $GW_{vel} = 394.8 \text{ cm/day}$

45.91 cm/DA4

86 yo

INITIAL RISK EVALUATION

5.1. Potential Sources

5.

Based on observations made during the fuel line replacement in September of 1996 and monitoring well installation in October of 1996, evidence suggests that petroleum contamination in site groundwater may be due to a fitting leak on the fuel lines near the southern end of the mid-grade unleaded and super unleaded USTs.

5.2. Potential Receptors

The nearest human receptors would be occupants of the site and the adjacent properties. Based on interviews with property occupants in the site building and in the commercial building northeast of the site, both structures appear to have poured concrete slab foundations without basements. A slab foundation reduces the likelihood of VOCs migrating from the site's soil into a structure.

The site and vicinity are served by private drinking water wells and a municipal sewer system. According to the Basic Well Data Sheets for the town of Dover, VT provided by the Water Supply Division of the Vermont Department of Environmental Conservation there are numerous private drinking water wells within a half-mile radius of the site. The site drinking water well is located approximately 160 feet southwest of the southwest wall of the site building.

CEA personnel observed a drinking water well located beneath a commercial building approximately 100 feet northeast of the site, situated between Route 100 and the North Branch of the Deerfield River. CEA was unable to determine well construction data, such as the depth to bedrock, the depth of the well and the length

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construction data, such as the depth to bedrock, the depth of the well and the length of the well casing. Based on groundwater elevations gathered on October 30, 1996, this commercial building appears to be downgradient of the site.

The nearest environmental receptor, in addition to site soil and groundwater, appears to be the North Branch of the Deerfield River, approximately 125 feet northeast of the site. An assessment of the impact to the river from the release was not possible due to snow and ice cover.

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5.3. Contaminant Distribution

Contaminant levels, based on laboratory analysis of groundwater samples from the October 30, 1996 sampling event, are presented in the Groundwater Gradient with Analytical Data Map presented in Attachment 3.

 Approximately four inches of free phase product were observed in monitoring well CEA-2 at the time of the sampling event, however, bailing reduced all product. It is believed the product was from a minor surface spill.

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- Benzene concentrations exceeding the VT DEC Groundwater Quality Enforcement Standards were found in groundwater from monitoring wells CEA-1, CEA-6 and MS-3.
- Xylene concentrations exceeding the VT DEC Groundwater Quality Enforcement Standards were found in groundwater from monitoring wells CEA-6.
- MTBE concentrations exceeding the Vermont Health Advisory Level were found in groundwater from monitoring wells CEA-1, CEA-6 and MS-3.

5.4. Contaminant Fate and Transport

Groundwater at the Christy's Market occurred between 3.63 and 4.50 below ground surface during the October 1996 sampling event. The hydraulic gradient between CEA-3 and CEA-1 was calculated to be approximately 0.16 cm/cm. In general, site soils consist of fine to medium grain sand with some gravel. Groundwater velocity at the site is approximately 394 cm/day to the east. Given these observations and assuming a homogeneous subsurface, it would appear that petroleum-related groundwater contamination at the site could migrate from the release area across the site to northeast corner in less than two weeks.



CONCLUSIONS AND RECOMMENDATIONS 6.

Conclusions and recommendations presented in this report are based solely on information obtained during the course of this investigation. Changes in site conditions, or information not available for review at the time of this investigation, may necessitate an update of these conclusions and recommendations.

Conclusions 6.1.

- A petroleum release is evident at this site. Gasoline-related contaminants were detected in groundwater samples collected from site monitoring wells.
- Evidence suggests that the release may have originated from fuel lines near the southeastern ends of the USTs.
- Approximately four inches of free phase product were observed in monitoring well CEA-2, however, this was bailed, is now recurring and believed to have been from a minor surface spill.
- Field screening of soil samples during drilling revealed elevated VOC levels at depths of approximately five feet in boring CEA-6 and near the southeast side the USTs.
- Concentrations of Benzene and Xylenes detected in site groundwater exceed VT DEC Groundwater Enforcement Standards.
- Site soils consist primarily of sand with some gravel. Some dense clay layers were also noted during excavation. Groundwater occurred between approximately 3.63 and 4.50 below ground surface during the October 1996 sampling event and at approximately six feet below ground surface during excavation at the site in September of 1996. The hydraulic gradient between CEA-3 and CEA-1 was calculated to be approximately 0.16 cm/cm in an WHITAS easterly direction.
- The site and vicinity are served by private drinking water wells and municipal sewer systems. The site drinking water well is located approximately 160 feet southwest of the southwest wall of the site building. Numerous private drinking water wells are located within a half-mile radius of the site. A drinking water well is located approximately 100 feet northeast of the/site. The nearest human receptors would be occupants of the site. The nearest environmental receptor appears to be the North Branch of the Deerfield River, approximately 125 feet HISO MAN of LOCARSONS northeast of the site.

6.2. Recommendations

CEA, Inc. recommends that the VOC levels in groundwater from the seven site monitoring wells be monitored on a quarterly basis until compounds tested for are beneath applicable Groundwater Enforcement Standards for two consecutive sampling events. Monitoring of groundwater will include gauging of groundwater levels.

Not constant

Two monitoring wells should be installed along the northeast side of Route 100 in the parking area between the road and the commercial building adjacent to the site. One monitoring well (CEA-7) will be across Route 100 from CEA-6 and the other monitoring well (CEA-8) will be approximately 125 feet southeast of CEA-7. The two monitoring wells will aid in assessing the potential for off-site migration of contaminants toward a drinking water well and the North Branch of the Deerfield River.

Quarterly groundwater monitoring will also include a visual inspection of the North Branch of the Deerfield River for impacts to the river from the release.

If available, well drilling data on the drinking water well across Route 100 will be reviewed. This data will provide information on the site subsurface and the risk posed to receptors by the release.

The approximately 30 cubic yards of contaminated soils stockpiled on site should be screened with a PID on a semiannual basis. Results of the soil screening will be incorporated into the appropriate quarterly groundwater monitoring reports. After the first soil screening event CEA will make recommendations as to whether continued monitoring or disposal is the most efficient resolution to the soil pile issue.

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A bailing test will be conducted in three site monitoring wells to gather information on site hydraulic conductivity. This data will provide additional information on the potential for migration of contaminants to off-site locations.

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CERTIFICATION STATEMENT

It is hereby certified that the methodologies, techniques and findings of this technical report have been conducted in accordance with relevant environmental regulations, applicable professional standards and prudent engineering practices and that the information, attached documents and data are true, accurate and complete to the best of our knowledge.

Corporate Environmental Advisors, Inc.

P.O. Box 1246 White River Junction, VT 05001 (802) 295-5222

> Paul S. Renouf Project Manager

Glenn S. Goral
Director of Remediation

February 12, 1997

Site: Christy's Market

Route 100

West Dover, VT

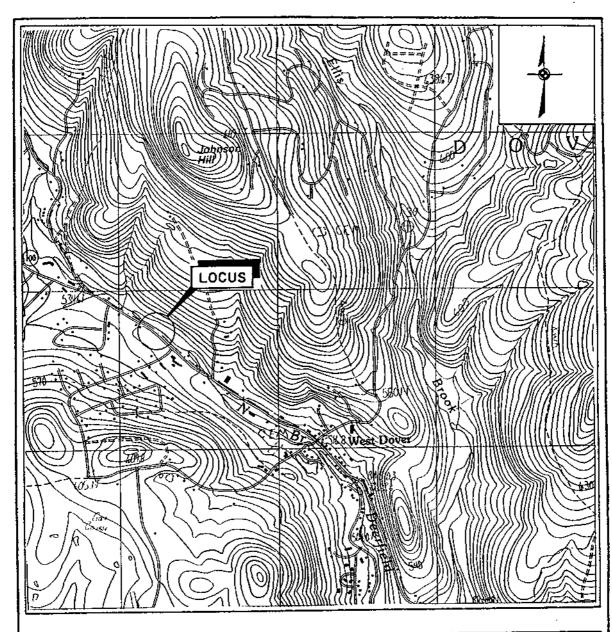
CEA Ref. File # 3016-96-2

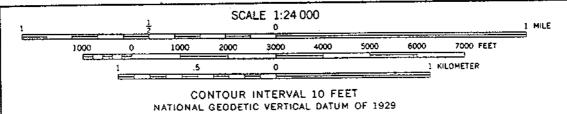


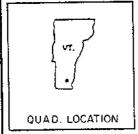
FIGURE 1

Site Locus









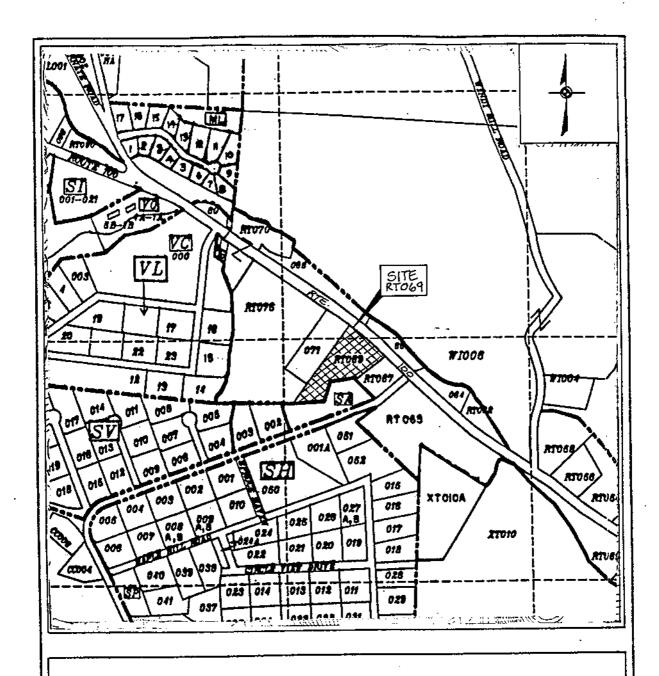
WEST DOVER, VERMONT U.S.G.S. QUADRANGLE FIGURE I



FIGURE 2

West Dover Tax Map





NOT TO SCALE



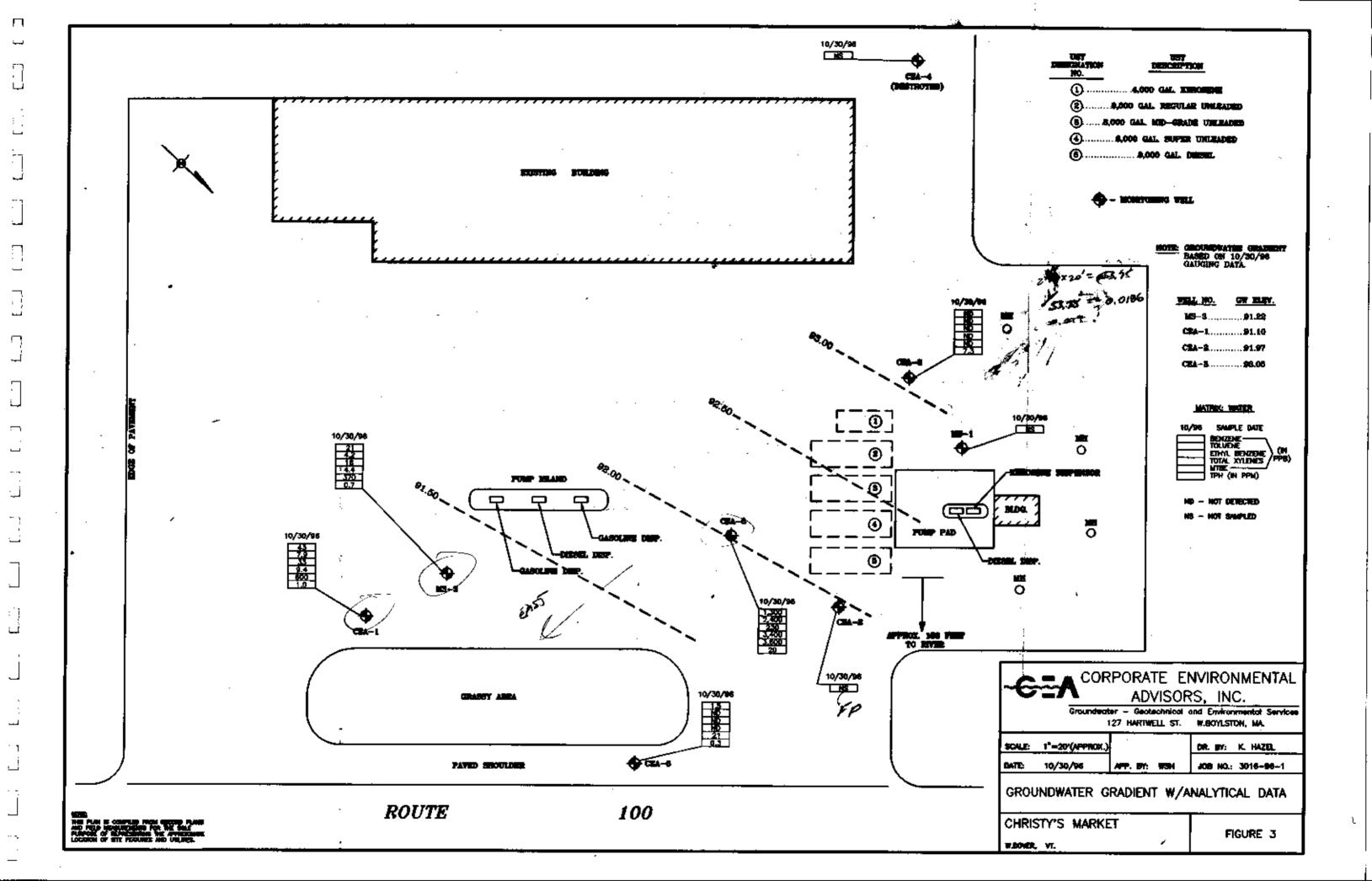
WEST DOVER, VERMONT TAX MAP



FIGURE 3

Groundwater Gradient with Analytical Data Map





ATTACHMENT 1

Soil Boring Logs





CEA DRILLING SERVICES COMPANY, INC.

Complete Environmental, GeoTechnical & Subsurface Drilling Services

BORING LOG/MONITORING WELL CONSTRUCTION REPORT

Project #1704-93	Boring Well #CEA-4	Page 1 of 1		
Lation: Route 100	Owner/Client: Christy's	Date Drilled: 5/14/93		
West Dover, VT.		Driller: P. Hatfield		
Si-Use: Gas Station/Convenience Store	Hole Diameter: 4.25*	Inspector: J. Gall		
D.nl Method: HSA	Total Depth: 10'	Project Mgr.: J. Gall		
Sample Method: SS	CASING	SCREEN		
G vel Pack: #2 sand	TYPE: PVC	TYPE: PVC		
Casing Seal: bentonite	DIAMETER: 2"	DIAMETER: 2"		
St ic Water Level: 5'	LENGTH: 2'	LENGTH: 8' SLOT: .010		
		FICATION STRATA VREMARKS CHANGE		
	Brown fine sands with pebble	es to cobbles, no odor, dry		
5'-7' \$-2 2-2-17-30	Gray medium sand grades to mica silt -also iron interbed,			
0-12 S-3 18-26-37-30 (Gray very fine sand/silt with	rock fragments (till)		
	Set Well			
		Δ		





CEA DRILLING SERVICES COMPANY, INC. Complete Environmental, GeoTechnical & Subsurface Drilling Services

BORING LOG/MONITORING WELL CONSTRUCTION REPORT

	TIG LOG	TIVIC	MITOR	ING WELL CONSTI	RUCTION REPORT		
Project #1704-93			Boring Well		Page 1 of	1	
Location: Route 100			Owner/Clien	nt: Christy's	Date Drilled: 5/14/93		
West Dove	r, VT.				Driller: P. Hatfield		
Site Use: Gas Station/C	onvenience S	tore	Hole Diame	ter: 4.25"	Inspector: J. Gall		
Di Method: HSA	············		Total Depth	: 10'	Project Mgr.: J. Gall		
Sample Method: SS	<u> </u>		CASING		SCREEN		
Gr el Pack: #2 sand			TYPE:	PVC	TYPE: PVC		
Casing Seal: bentonite			DIAME	TER: 2*	DIAMETER: 2"		
Str 2 Water Level: 4'			LENGTI	H: 2'	LENGTH: 8' SLOT: .(010	
L_PTH BELOW SAMPLE SUPFACE NUMBER	BLOWS PER 6" ON SAMPLER	PID (ppm)		OF SOIL	IFICATION S/REMARKS	STRATA: CHANGE	
0-2' S-1 5'-7' S-2 -12 S-3	Flight 8-15-7-15	0.0 0.0	S DESIGN	Dark brown/gray fine sand	with pebbles/rocks, dry no odor	4' GW	





CEA DRILLING SERVICES COMPANY, INC.

Complete Environmental, GeoTechnical & Subsurface Drilling Services

BORING LOG/MONITORING WELL CONSTRUCTION REPORT

Project #1704-93 L:ation: Route 100 West Dover, VT.	Boring Well #CEA-2 Owner/Client: Christy's	Page 1 of	1	
	Owner/Client: Christy's	D-1- D (1) 1 S(1) 100		
West Dover, VT.		Date Drilled: 5/14/93		
		Driller: P. Hatfield		
S: Use: Gas Station/Convenience Store	Hole Diameter: 4.25*	Inspector: J. Gall		
Lull Method: HSA	Total Depth: 10'	Project Mgr.: J. Gall		
Sple Method: SS	CASING	SCREEN		
C vel Pack: #2 sand	TYPE: PVC	TYPE: PVC		
Casing Seal: bentonite	DIAMETER: 2"	DIAMETER: 2"		
S ic Water Level: 5'	LENGTH: 2'	LENGTH: 8' SLOT: .010	0	
DEPTH BLOWS PER BELOW SAMPLE 6°ON PID FRACE NUMBER SAMPLER (ppm	WELL DENTI	FICATION	TRATA CHANGE	
0-2' S-1 Flight 0.0 5'-7' S-2 2-5-3-16 0.0	Brown fine sands with pebble Gray very fine sand/sild with wet, no odor	es to cobbles, no odor, dry	5' GW	





CEA DRILLING SERVICES COMPANY, INC.

Complete Environmental, GeoTechnical & Subsurface Drilling Services

BORING LOG/MONITORING WELL CONSTRUCTION REPORT

	ROKI	NG LOG	MU	MII	OKLI	AG MELL CONS	INOCIIC	IN ICE	OKI	
Project #170	4-93	<u> </u>		Borin	Well #	CEA-1	Page	1	of	1
- cation: R	oute 100			Owne	r/Client	: Christy's	Date Dril	led: 5/14	/93	,
	West Dove	er, VT.				<u>.</u>	Driller:	Driller: P. Hatfield		
Te Use: Ga	as Station/C	Convenience St	ore	Hole	Diamete	r: 4.25"	Inspector	J. Gall	<u> </u>	
rill Methoc	i: HSA			Total	Depth:	8.5'	Project M	lgr.: J. G	all	
Semple Meti	nod: SS			CASI	NG		SCREEN	1		
ravel Pack	: #2 sand			T	PE: P	VC	TYPE	: PVC		
Casing Seal:	bentonite			D	AMET	ER: 2*	DIAN	ETER:	2"	
	Level: 4'			L	ENGTH	i: 1'	LENG	3TH: 7.5	SLOT: .0)10
DEPTH BELOW	SAMPLE	BLOWS PER 6° ON	PID		VELL.		ENTIFICATION SOILS/REMARKS			STRATA CHANGE
URFACE	NUMBER	SAMPLER	(ррп	e e	ESIGN	Brown fine sand with co			no odor	
0-2'	S-1	Flight	0.0							
										4*
5'-7'	S-2	7-8-15-30	6.0			Gray coarse sand with re	ock fragments	"old" gas	odor, wet	GW
-										
— 8.5 '	S-3	Grab	2.0	·		Gray very fine sand/silt				
	<u> </u>			- [On rock - drum cutting Auguer Refusal 8.5	S			1
_						Set Well				
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141 Ballard Street ■ Worcester, Massachusetts 01607 ■ 508-755-5201 ■ Fax 508-755-9462

			FIT S	TREET CONNEC	P.O.	BOX (06497	,	PF	OJECT	NAME	Grampy's	Texaco	_ M 3 - 0 / 1
			368-7988	• FAX	#(203)	378-87	36	رد	CATIO	N Route	100, Wes	t Dover, VI	SHEET
		er —	Bine	0		ARCHI ENGIN		Mark	Bur	20		FILE NO. 1	No. 1
		CTOR _	Arm	and		TYPE		H.S.	<u>A.</u>	Sampler	Core Barrel	SURFACE ELEV.	TA.
	ATE	START	7-1	7-90		SIZE I	D. ER WT,	411	! -			LINE & STATION	NA.
	ATE	FINISH	7-1	7-90		l	ER FALL					OFFSET	NA.
	Ţ			SAI	MPLE		:_		COL.	STRATA	Į		İ
	DEPTH	NO.	DEPTH	RANGE	01	OWS PER	.ER	REC.	^	CHANGE	FIELD CL	ASSIFICATION AND RE	MARKS
_					0-6	6-12	12-18			6**	Blacktop	& EXAMANA Gravel	
-]	1	-F sand, some smal	
1						┼		-	 	-		little coarse sand my cobbles	, trace of
,	e 1	S1	Grab :	Sample			•			7		.2, 0007100	
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		-								1	Gray gre	en MC-F sand and s	ilt, little
- 1					 		 	 	╂	10'	pea grav	vel, many cobbles	
ੑ ੑ	۲o۳	+				-	1					10° B.O.B.	
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· 7									1		Refusal	on H.S.A.	
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		}_									of .0	20 screen.	
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٠ <u>-</u>				n lines represent te boundary be- s, transitions may	1	40 lb. Wt	PENETR	0" on 2	" O.O. S	ampler	PROPORTI		m flyte.
٠.			m gradual.	s, transitions may idings have been ful notes at times	0-4	V	Density Logse	<u> </u>	O-2	Very Soft	little 10 to	o 20%	
<u>. </u>	_ \	1	ne postud tod: Ne postud tod:	idillons stated on a Fluctualions in troundwater may	10-2	g M	Loose eg. Dense Oense	1	5.8 9-15	Satt M/Stitt Stitt	some 20 to	o 35% COL. A Wate	r @ 5':
				other lectors man			ery Dense	l 	16-30 31 •	Hard			
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		OF CO	• P.O	. BOX 1 0649	D 7		000.50		han 011 Co Frampy's Te 100, West	exaco Dover, VI	BORING NUMBER MS1-CH SHEET
		Bino		ARCH			rk Bu			FILE NO1	No. 1
PECTO	DA _	Armand		TYPE		H.S	.A.	Samo	Core Barrel	SURFACE ELEV.	NA
DATE ST	ART	7-17-90	 -	SIZE I	.O. ER WT.	41				LINE & STATION	NA
TE FIN	NISH	7-17-90		ŀ	ER FALL		= :			OFFSET	NA
E NO	o.	DEPTH RANGE		WS PER		REC.	COL.	STRAM	FIELD CLA	ASSIFICATION AND RE	MARKS
· ' - -	+		0-6	6-12	12-18		 		Blacktop	& Gravel	
									gravel, l	F sand, some larg ittle coarse sand vel, few cobbles	
5.1 S	1	Grab Sample					 			saturated)	
-								<u>''</u>	pea grave	en MC-F sand and s	ilt, little
11'	_							11'-		l' B.O.B.	
_ _								1	1	. 5.0.5.	
`上							 - 		Refusal o	on H.S.A.	
					_				Possible	large boulder	
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1	the so	sevet readings have been in the drill holes at times	Cohesia 0-4	b. Wt. fa onless De Very	Loose	0n 2"	O.D. Samesive Con	SILLER F	PROPORTION (120 to 20 to	0% obtained from	n flyte.
	ine be the le occur those	nder conditions stated on pring logs. Fluctuations in visel of groundwater may due to other factors than present at the lime measure- were made.	5.9 10-29 30-49 50 *	Med,	Laase Dense Oense	5 9 16	-15 Sti	Stoff Stoff	nd 35 to 5	wate	r @ 5'±

	GRAMPY'S	MOUNT SNOW T	RVATION WELL RE	BORING NO	152
OJE	CTWEST_DOVI			LOCATION S	EE SKETCH
OCAT	CALLAHAN O	IL			
LIEN	RACTOR ARMOR	SHIELD		INSTALLATION DA	TE 17 JULY 90
TROOTE	RACTORBINO BA	RROZO		H&A REP_M.	BURNO
RILLE	A				
SURVE DATUM GROU ELEV	ND ATION	15/18/18/18/18	GROUND SURFAI ROADWAY BOX CLEVATION OR S GROUND SURFAI THICKNESS OF TYPE OF SURFAI	STICKUP ABOVE/BELOW- CE OF BASING OR STICKUP ABOVE/BELOW CE OF RISER PIPE SURFACE SEAL ACE SEAL	1.5 in. 1.0 ft. CEMENT/ BENTONITE
SCALE)	SAND and GRAVEL with cobbles	CEMENT 1.0	TYPE OF CASH	ALL SEALS SHOWING HICKNESS AND TYPE	ROADWAY BOX 12 in. 1.1 ft.
IL CONDITIONS (NOT TO		BENTONITE	TYPE OF BAC	TER OF RISER PIPE KFILL AROUND RISER ^{CEM} BOREHOLE	2.0 in. ENT/BENTONIT! 8.25 in.
SUMMARIZE SOIL	8.0————————————————————————————————————	FILTER	TYPE OF POL SCREEN GAU DIAMETER O TYPE OF BAN	EPTH OF BOTTOM OF RISE NT OR MANUFACTURER GE OR SIZE OF OPENING F WELLPOINT CKFILL AROUND POINT DEPTH OF BOTTOM OF POI DEPTH OF BOTTOM	0.020 i 2.0 in.
.9 Rev. Feb. 88	10.0 COBBLES	1	OF BOREHO	7.5 ft.	10.5 f
Form 59	1.1 ft.	NG (L 1) LENG	3.0 ft. TH OF RISER PIPE (L.)	LENGTH OF POINT (L 2)	PAY LENGT

A Haley & A		GROUNDWATER RVATION WELL REPORT	WELL NO.	
PROJECT_ GRAME	Y'S MOUNT SNOW	TEXACO	 -	
LOCATION WEST	DOVER, VERMONT		BORING NO	
CLIENT CALLAHAN	OIL		LOCATION	SEE SKEICH
CONTRACTORARM			INOTAL ATOM	
DRILLERBINO	BARROZO			DATELY HILLY 90
			H&A REP	4. BURNO
SURVEY DATUM GROUND ELEVATION	 T	GROUND SURFACE OF GROUND SURFACE OF GROUND SURFACE OF RIGHT	ABOVE/SELOW	FLUSH 3 in.
ASPHALT	TITATIKTIK (KIK	THICKNESS OF SUBSION		105-
0.2	!	THICKNESS OF SURFACE		1.0 fc.
	CEMENT 1.0	TYPE OF SURFACE SEAL INDICATE ALL SEAL DEPTH, THICKNESS	EDNIWOHE 2.	CEMENT/ BENTONITE
SAND and GRAVEL		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
g		TYPE OF CASING		ROADWAY BOX
SCALE		INSIDE DIAMETER OF CAS		12 in.
(NOT TO 8	BENTONITE	OF CASING	TTOM	_1.1 ft
<u>ح</u> ا				
DITIONS	2.0	INSIDE DIAMETER OF RISE		2.0 in. NT/BENTONITE
CONIC	İ	DIAMETER OF BOREHOLE	-	8.25 in.
SOIL	FILTER SAND			
NRIZ	<u> } </u>	ELEWITION DEPTH OF BOT	TTOM OF RISER	2.5 ft.
SUMMARIZE	.	TYPE OF POINT OR MANU	FACTURER S	LOTTED PVC
	1,1	SCREEN GAUGE OR SIZE	OF OPENINGS	0.020 in.
Sandy SILT	[-2]	DIAMETER OF WELLPOINT		2.0 in.
	1	TYPE OF BACKFILL AROUS	ND POINT	FILTER SAND
	[±`	VELEVATION DEPTH OF BOT	TOM OF POINT	10.5 ft.
COBBLES		OF BOREHOLE	TOM ,	11.0 ft.
		FIGURES REFER TO: EL.	OEPTH _	<u>x</u>]
1.1 ft.	(L.) LENGTH OF	.5 ft. 8.0 RISER PIPE (L,) LENGTH OF R	ft.	10.5 ft.

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CORPORATE ENVIRONMENTAL ADVISORS, INC.

141 Ballard Street • Worcester, Massachusetts 01607 • (508) 754-1080

OBS	ERVAT	TON WE	LL GAU	GE REPO	ORT			1	1			
SITE	\mathcal{C}	hastris	Mar	Ket	DA [*]			1/23/	96	<u> </u>		
			ver, Vt		PRO	DIECT NO.	7	2 016-	96-2) 	ref.#	1896
_ INSPECTOR		S. Hoppe		PROJECT NO. 3016-96-2 ref. = INSTRUMENT Interface probe						R.		
	•	A	B	С		E	F			۷ 		
	WELL	ROAD- BOX ELEV.	DEPTH TO PRODUCT	DEPTH TO WATER	PRODUCT THICK (C-B)	PRODUCT ELEV. (A-B)	WATER ELEV. (A-C)		R	EMARK	s	
C04-2		96.12		4.15			91,97					
CEA-3		96.72		3.67			93.05					
MS-3		95.22		4.50			91.22					
COA-		94.73		343			91.10					
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	<u>. t</u>	, 		VERSION:	INCHES TO FI	RACTIONAL I	FEET					
	1/2	.04 2 14 .08 3	/221 .25	4 1/2 5 5 1/2	.37 6 1. .42 7 .46 7 1	/2 .54 .58			,75	0 1/2 11 1 1/2	.87 .91 .95	
_	1 1/2	.12 3 1 .16 4	_	6	.50 8				.83			



te:	West Dover,	VT	Construction		et B(S	Material Description	Symbol
lient:	17 031 25 0 1 0 1 1 1		Screen:	10	to		2" Sch 40 0.010 Slot PVC Screen	
ate:	29-Oct-96		Riser:	3	to		2" Sch 40 PVC riser	1000
ocation:	CEA-5		Sandpack:	10	to		# 2 Silica Sand	
riller:	Jody St. Geor	ge	Seal:	2.5	to		Sodium Bentonite	
spector:	W. Scott Hop		Backfill:	2	to 0 Concrete			
Depth	Sample	Blow Counts	Recovery	B	orin	ing - Soil Description		OVM
(feet BGS)	Sample	per 6"	(inches)		Detai			(ppm)
(leet bG3)		Par	<u> </u>		8			
	 	··	<u> </u>					
	<u> </u>			**********	~	00000000000		
	<u> </u>	<u> </u>	 	21.13.3				
	S-1	10-15-30-33	N/A				Dark brown, medium dense, moist to wet SAND, some gravel	< 1
4-6	5-1	10-10-30-33	1477					
	6.3	21-23-15-14	N/A	0 3				< 1
6-8	S-2	21-23-13-14	1071	6 (0.00)				
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	 	 	 	2000				
		 		(C) (1)		Wengooo	Refusal @ 10' BGS	
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			Portion	-+-	Per	cent	Hammer Weight: 140 Pounds	
Depth to V			And	- 		to 5		
Drilling M	lethod:	HSA			_		5 Hammer Fall: 30-Inches	
Drill Rig	Гуре:	CME-75					0 Note:	
			Little				0 Note:	
Sheet Nur	nber:	of	Trace		0	to 1	<u>v </u>	



te:	West Dover,	VΤ	Construction	Feet BGS	Material Description	Symbo
ient:	Christy's Mar	ket	Screen:	to		
ate:	29-Oct-96		Riser:	to		
ocation:	CEA-6		Sandpack:	to		
riller:	Jody St. Geo:	rge	Seal:	to		
spector:	W. Scott Hop	ope	Backfill:	to		
Depth	Sample	Blow Counts	Recovery	Boring	Soil Description	OVM
feet BGS)		per 6"	(inches)	Detail		(ppm)
1000 1000)		·				
				1		
	 	 		1		
			··	1		
	Š-1	21-26-19-30	N/A	1	Light brown, moist, medium dense SAND	476
4-6	3-1	21-20-17-00	2,72	1		
	ļ	<u> </u>		┪	No well construction data available	
		 	 	1		
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	+	· -	 	7	Refusal @ 6.5'	
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<u></u>			Portion	Percent	Hammer Weight: 140 Pounds	
Depth to V		5'			50 Sampler Size: 2-Inch O.D. Split Spoon	
Drilling M		HSA	And		35 Hammer Fall: 30-Inches	
Drill Rig	Type:	CME-75	Some		20 Note:	
			Little		10	

ATTACHMENT 2

Laboratory Analytical Reports





Massachusetts Certification M-MA 138
Connecticut Approval # PH 0777
Rhode Island # 98 & Maine # n/a
New Hampshire ID#253893
New York ID#11393
Florida HRS87448

CEA, Inc. 127 Hartwell Street West Boylston, MA 01583

Attn: Scott Hoppe

Client Project No.: 3016-962

November 11, 1996

Location: Christy's/Mt. Snow-W. Dover, VT

Lab ID No.	Client ID	Analysis Requested NOV 20 1996
AA 63550	CEA-3	C93-EPA 602 C103-TPH by GC (water)
AA63551	CEA-5	C93-EPA 602 C103-TPH by GC (water)
AA63552	CEA-1	C93-EPA 602 C103-TPH by GC (water)
AA63553	MS-3	C93-EPA 602 C103-TPH by GC (water)
AA63554	CEA-6	C93-EPA 602 C103-TPH by GC (water)

Hanibal Tayell President/Laboratory Director

Laboratory Report

Client ID: CEA-1 Lab ID No: AA63552 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No.: 3016-962

Matrix: Water

Collected: 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration Container: 1 Amber Glass Liter Condition of Sample as Received: Satisfactory Delivered by: Courier

Total Hydrocarbons by GC

Modified EPA Method 8100

	Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
_	Total Hydrocarbons (GC)	1.0		11/04/96	11/06/96	ATP
-	Fingerprint based quantification:					
	Gasoline -:	1.0	0.2	11/04/96	11/06/96	ATP
_	Fuel Oil #2	Not detected	0.4	11/04/96	11/06/96	ATP
	Fuel Oil #4	Not detected	0.7	11/04/96	11/06/96	ATP
	Fuel Oil #6	Not detected	0.7	11/04/96	11/06/96	ATP
	Motor Oil	Not detected	0.7	11/04/96	11/06/96	ATP
	Ligroin	Not detected	0.4	11/04/96	11/06/96	ATP
_	Aviation Fuel	Not detected	0.4	11/04/96	11/06/96	ATP
	Other Oil	Not detected	0.7	11/04/96	11/06/96	ATP
-	Unidentified	Not detected		11/04/96	11/06/96	ATP

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil.

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes lubricating and cutting oil and silicon oil.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

Laboratory Report

Client ID: CEA-3 Lab ID No: AA63550 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No.: 3016-962

Matrix: Water Collected: 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration Container: 1 Amber Glass Liter

Condition of Sample as Received: Satisfactory Delivered by: Courier

Total Hydrocarbons by GC

Modified EPA Method 8100

	Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
_	Total Hydrocarbons (GC)	7.3		11/04/96	11/06/96	ATP
_	Fingerprint based quantification:					
	Gasoline	Not detected	0.2	11/04/96	11/06/96	ATP
	Fuel Oil #2	Not detected	0.4	11/04/96	11/06/96	ATP
	Fuel Oil #4	Not detected	0.7	11/04/96	11/06/96	ATP
_	Fuel Oil #6	7.3	0.7	11/04/96	11/06/96	ATP
_	Motor Oil	Not detected	0.7	11/04/96	11/06/96	ATP
	Ligroin	Not detected	0.4	11/04/96	11/06/96	ATP
_	Aviation Fuel	Not detected	0.4	11/04/96	11/06/96	ATP
	Other Oil	Not detected	0.7	11/04/96	11/06/96	ATP
	Unidentified	Not detected		11/04/96	11/06/96	ATP

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil.

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes lubricating and cutting oil and silicon oil.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

Laboratory Report

Client ID: CEA-5 Lab ID No: AA63551 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No.: 3016-962

Matrix: Water Collected: 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR Preservative: Refrigeration Container: 1 Amber Glass Liter Condition of Sample as Received: Satisfactory Delivered by: Courier

Total Hydrocarbons by GC

Modified EPA Method 8100

	Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
	Total Hydrocarbons (GC)	0.3		11/04/96	11/05/96	ATP
	Fingerprint based quantification:					
	Gasoline	0.3	0.2	11/04/96	11/05/96	ATP
_	Fuel Oil #2	Not detected	0.4	11/04/96	11/05/96	ATP
	Fuel Oil #4	Not detected	0.7	11/04/96	11/05/96	ATP
_	Fuel Oil #6	Not detected	0.7	11/04/96	11/05/96	ATP
	Motor Oil	Not detected	0:7	11/04/96	11/05/96	ATP
	Ligroin	Not detected	0.4	11/04/96	11/05/96	ATP
_	Aviation Fuel	Not detected	0.4	11/04/96	11/05/96	ATP
	Other Oil	Not detected	0.7	11/04/96	11/05/96	ATP
_	Unidentified	Not detected		11/04/96	11/05/96	ATP

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil.

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes lubricating and cutting oil and silicon oil.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

After fingerprint identification, the amount present in the sample is quantified using a calibration curve prepared from a petroleum product of the same category as the identified petroleum. Unidentified petroleum is quantified using a petroleum calibration that approximates the distribution of compounds in the sample.

A * in the results column indicates the petroleum calibration used to quantify unidentified samples.

Laboratory Report

Client ID: CEA-6 Lab ID No: AA63554 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No.: 3016-962

Matrix: Water Collected: 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR Preservative: Refrigeration Container: 1 Amber Glass Liter Condition of Sample as Received: Satisfactory Delivered by: Courier

Total Hydrocarbons by GC

Modified EPA Method 8100

_	Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
	Total Hydrocarbons (GC)	20		11/04/96	11/06/96	ATP
~	Fingerprint based quantification:					
- -	Gasoline Fuel Oil #2 Fuel Oil #4 Fuel Oil #6 Motor Oil Ligroin Aviation Fuel	20 Not detected Not detected Not detected Not detected Not detected Not detected Not detected Not detected	0.2 0.4 0.7 0.7 0.7 0.4 0.4 0.7	11/04/96 11/04/96 11/04/96 11/04/96 11/04/96 11/04/96 11/04/96	11/06/96 11/06/96 11/06/96 11/06/96 11/06/96 11/06/96 11/06/96	ATP ATP ATP ATP ATP ATP ATP
_	Other Oil Unidentified	Not detected		11/04/96	11/06/96	ATP

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil.

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes lubricating and cutting oil and silicon oil.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

Laboratory Report

Client ID: MS-3 Lab ID No: AA63553 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No.: 3016-962

Matrix: Water Collected: 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration Container: 1 Amber Glass Liter Condition of Sample as Received: Satisfactory Delivered by: Courier

Total Hydrocarbons by GC

Modified EPA Method 8100

	Parameter	Result (mg/L)	MDL	Extracted	Analyzed	Analyst
	Total Hydrocarbons (GC)	0.7		11/04/96	11/06/96	ATP
	Fingerprint based quantification:					
	Gasoline	0.7	0.2	11/04/96	11/06/96	ATP
	Fuel Oil #2	Not detected	0.4	11/04/96	11/06/96	ATP
	Fuel Oil #4	Not detected	0.7	11/04/96	11/06/96	ATP
_	Fuel Oil #6	Not detected	0.7	11/04/96	11/06/96	ATP
	Motor Oil	Not detected	0.7	11/04/96	11/06/96	ATP
	Ligroin	Not detected	0.4	11/04/96	11/06/96	ATP
_	Aviation Fuel	Not detected	0.4	11/04/96	11/06/96	ATP
_	Other Oil	Not detected	0.7	11/04/96	11/06/96	ATP
_	Unidentified	Not detected		11/04/96	11/06/96	ATP

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from petroleum products. Possible match categories are as follows;

Gasoline - includes regular, unleaded, premium, etc.

Fuel Oil #2 - includes home heating oil, #2 fuel oil and diesel.

Fuel Oil #4 - Includes #4 Fuel Oil.

Fuel Oil #6 - includes #6 oil and bunker "C" oil.

Motor Oil - includes virgin and waste automobile.

Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha.

Aviation Fuels - includes Kerosene, Jet A and JP-4.

Other Oil - includes lubricating and cutting oil and silicon oil.

Factors such as microbial degradation, weathering and solubility generally prevent specific identification within a petroleum category. A finding of "unidentified" means that the sample fingerprint was characteristic of a petroleum product, but could not be matched to a fingerprint in the library.

Laboratory Report

Sample ID: CEA-1 Lab ID No: AA63552 Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No: 3016-962

Matrix: Water Sampled on 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration, HCl Container: 2 VOA Vials Condition of Sample as Received: Satisfactory Delivered by: Courier

Volatile Aromatics

Parameter	Result (ug/L)	MDL	A walenad	Analyst
	43	10	Analyzed 11/11/96	NB
Benzene		10	11/11/96	NB
Toluene	7.9		11/11/96	NB
Ethylbenzene	33	10	11/11/96	NB
m,p-Xylenes	Not detected	10		
o-Xylene	9.4	10	11/11/96	NB
- Chlorobenzene	Not detected	5	11/11/96	NB
1,2-Dichlorobenzene	Not detected	5	11/11/96	NB
•	Not detected	5	11/11/96	NB
1,3-Dichlorobenzene	Not detected	5	11/11/96	NB
1,4-Dichlorobenzene		10	11/11/96	NB
Methyl-t-butyl-ether	600	10		
TFT Surrogate Recovery (%)	96		11/11/96	NB

Laboratory Report

Sample ID: CEA-3 Lab ID No: AA63550

Location: Christy's/Mt. Snow-W. Dover, VT

Client Job No: 3016-962

Matrix: Water Sampled on 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration, HCl Container: 2 VOA Vials Condition of Sample as Received: Satisfactory Delivered by: Courier

Volatile Aromatics

Parameter	Result (ug/L)	MDL		
- Benzene	Not detected	2.5	Analyzed 11/07/96	Analyst NB
Toluene	Not detected	2.5	11/07/96	NB
Ethylbenzene	Not detected	2.5	11/07/96	NB
m,p-Xylenes	Not detected	5	11/07/96	NB
o-Xylene	Not detected	2.5	11/07/96	NB
_ Chlorobenzene	Not detected	2.5	11/07/96	NB
1,2-Dichlorobenzene	Not detected	2.5	11/07/ 9 6	NB
1,3-Dichlorobenzene	Not detected	2.5	11/07/96	NB
 1,4-Dichlorobenzene 	Not detected	2.5	11/07/96	NB
Methyl-t-butyl-ether	Not detected	2.5	11/07/96	NB
TFT Surrogate Recovery (%)	103		11/07/96	NB

Laboratory Report

Sample ID: CEA-5 Lab ID No: AA63551

Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No: 3016-962

Matrix: Water Sampled on 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration, HCl Container: 2 VOA Vials Condition of Sample as Received: Satisfactory Delivered by: Courier

Volatile Aromatics

	Parameter	Result (ug/L)	MDL		
- B	Senzene	1.5	1	Analyzed 11/11/96	Analyst NB
T	'oluene	Not detected	1	11/11/96	NB
E	Ethylbenzene	Not detected	1	11/11/96	NB
— m	ı,p-Xylenes	Not detected	2	11/11/96	NB
0	-Xylene	Not detected	1	11/11/96	NB
_ C	Chlorobenzene	Not detected	1	11/11/96	NB
1,	,2-Dichlorobenzene	Not detected	1	11/11/96	NB
1,	,3-Dichlorobenzene	Not detected	1	11/11/96	NB
— 1,	,4-Dichlorobenzene	Not detected	1	11/11/96	NB
M	lethyl-t-butyl-ether	21	1	11/11/96	NB
- T	FT Surrogate Recovery (%)	100		11/11/96	NB

Laboratory Report

Sample ID: CEA-6 Lab ID No: AA63554

Location: Christy's/Mt. Snow-W. Dover,VT

Client Job No: 3016-962

Matrix: Water Sampled on 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration, HCl Container: 2 VOA Vials Condition of Sample as Received: Satisfactory Delivered by: Courier

Volatile Aromatics

Parameter	Result (ug/L)	MDL		
— Benzene	1,300	20	Analyzed 11/11/96	Analyst NB
Toluene	2,400	20	11/11/96	NB
_ Ethylbenzene	230	20	11/11/96	NB
m,p-Xylenes	2,000	40	11/11/96	NB
o-Xylene	1,400	20	11/11/96	NB
_ Chlorobenzene	Not detected	10	11/11/96	NB
1,2-Dichlorobenzene	Not detected	10	11/11/96	NB
1,3-Dichlorobenzene	Not detected	10	11/11/96	NB
- 1,4-Dichlorobenzene	Not detected	10	11/11/96	NB
Methyl-t-butyl-ether	3,600	20	11/11/96	NB
TFT Surrogate Recovery (%)	90		11/11/96	NB

Laboratory Report

Sample ID: MS-3 Lab ID No: AA63553 Location: Christy's/Mt. Snow-W. Dover,VT Client Job No: 3016-962

Matrix: Water Sampled on 10/30/96 by CEA Received on 10/31/96 by MD QC and Data Review by DDR

Preservative: Refrigeration, HCl Container: 2 VOA Vials Condition of Sample as Received: Satisfactory Delivered by: Courier

Volatile Aromatics

Parameter	Result (ug/L)	MDL		
— Benzene	21	2	Analyzed Analys 11/11/96 NB	it
Toluene	4.2	2	11/11/96 NB	
Ethylbenzene	18	2	11/11/96 NB	
m,p-Xylenes	Not detected	4	11/11/96 NB	
o-Xylene	4.4	2	11/11/96 NB	
_ Chlorobenzene	Not detected	1	11/11/96 NB	
1,2-Dichlorobenzene	Not detected	1	11/11/96 NB	
1,3-Dichlorobenzene	Not detected	1	11/11/96 NB	
- 1,4-Dichlorobenzene	Not detected	1	11/11/96 NB	
Methyl-t-butyl-ether	370	2	11/11/96 NB	
TFT Surrogate Recovery (%)	97		11/11/96 NB	

Spectrum Analytical, Inc. Laboratory Report Supplement

References

- Methods for the Determination of Organic Compounds in Drinking Water. EPA-600/4-88/039. EMSL 1988.
- Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. EMSL 1983.
- Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater. EPA 600/4-82-057. EMSL 1982.
 - Test Methods for Evaluating Solid Waste. Physical/Chemical Methods. EPA SW-846, 1986.
- Standard Methods for the Examination of Water and Wastes. APHA-AWWA-WPCF. 16th Edition. 1985.
 - Standard Methods for Comparison of Waterborne Petroleum Oils by Gas Chromatography. ASTM D 3328, 1982.
- Oil Spill Identification System. U.S. Coast Guard CG-D-52-77, 1977.

Decachlorobiphenyl

- Handbook for Analytical Quality Control in Water and Wastewater Laboratories. EPA 600/4-79-019, EMSL 1979.
- Choosing Cost-Effective QA/QC (Quality Assurance/Quality Control) Programs for Chemical Analyses. EPA 600/4-85/056. EMSL 1985.

Report Notations

Not Detected, Not Det, ND or nd	=	The compound was not de equal to or above the es limit.				
NC	=	Not Calculated				
AOV	_	Volatile Organic Analysi	İS			
BFB	#	4-Bromofluorobenzene	(an	EPA	624	Surrogate)
p-DFB	=	<i>1,4-Difluorobenzene</i>				Surrogate)
CLB-d5	=	Chlorobenzene-d5	(an	EPA	624	Surrogate)
BCP	=	2-Bromo-1-chloropropane	(an	EPA	60I	Surrogate)
TFT	=	a,a,a-Trifluorotoluene	(an	EPA	602	Surrogate)

Definitions

(An EPA 608/8080 Surrogate)

- Surrogate Recovery = The recovery (expressed as a percent) of a non method analyte (see surrogates listed above) added to the sample for the purpose of monitoring system performance.
- Matrix Spike Recovery = The recovery (expressed as a percent) of method analytes added to the sample for the purpose of determining any effect of sample composition on analyte recovery.
- Laboratory Replicate = Two sample aliquots taken in the analytical laboratory and analyzed separately with identical procedures. Analyses of laboratory duplicates give a measure of the precision associated with laboratory procedures, but not with sample collection, preservation, or storage procedures.
- Field Duplicate = Two separate samples collected at the same time and place under identical circumstances and treated exactly the same throughout field and laboratory procedures. Analysis of Field duplicates give a measure of the precision associated with sample collection, preservation and storage, as well as with laboratory procedures.
- Relative Percent Difference (% RPD) = The precision measurement obtained on duplicate/replicate analyses. %RPD is calculated as:

CHAIN OF CUSTODY RECORD



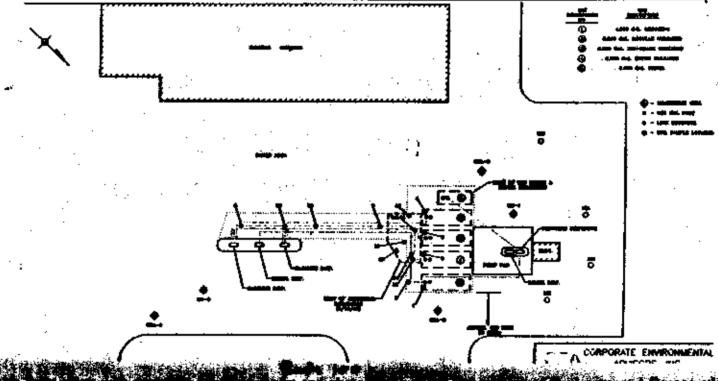
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→ROJECT NO.: 3016-96-2						REPORT TO: Scott Durge																			
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LOCATION: West Dover STATE DT							ADDRESS:																		
REFERENCE QUOTE NUMBER (RQN):							CITY STATE ZIP																		
PURCHASE	ORDER NO.:		·				INVOICETO: 6kg Gorc																		
PROJECT Mgr: Scott Hupper							CED																		
SAMPLER(s): Scott Home							CITY STATE ZIP																		
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.=4°C 2-HCt 3-H SO 4-HNO 5-OTHER]	SS			R			ES		(8080)	5M)		EASE	1 - 2 -	1 - Soluble 2 - Total 3 - TCLP As, Cd, Cr, Hg, Pb) E	3-KEACI	T		
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Fax results when available to ()					All TAT's are subject to laboratory approval and customer consent. DATE RESULTS NEEDED:																				
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UNDERGROUND STORAGE TANK PERMANENT CLOSURE FORM

VERMONT AGENCY OF NATURAL RESOURCES

School, closure date: Facility Town: Facility (Dd:		DEPT, OF ENVIRONMATER OF ENVIRONMATER OF ENVIRONMENT OF ENVIRONMEN	ERIALS MANAGE STREET, WEST I RMONT 05671-04	MENT DIV. BUILDING	Congress statesting site contents to the conte					
scheduled closureturned to the environmental of relevant data, in required by 29 performed in costatutes, regular	are date should be above address; the consultant covering nust accompany the CFR 1910, 120. Dompliance with DE tions, and addition	phoned in at least pink copy should all aspects of classifications is form. All prococumentation of a Copolicy "UST Copy"	48 hours in adverse in adverse and site assedures must be crall methods and not looker and Site Asserts a	ance. <u>Both the</u> the UST owner tessment, componducted by qui naterials used r Assessment Rec	er left hand corner. yellow and white c A written report lete with photograp alified personnel - nust be adequate. puirements" as well are forms and report	opies must be from an ohs and any other including training All work must be as all applicable				
Name of Facilit Street address of Owner of UST(Name of Contai Mailing address	s) to be closed:	e 100, P.O. Christy's Number if different Christy's D	Box 969, We larket I from owner: rive, Brock	st DOver. Mr. Ton Ui	f Employees: 3 15 7T 1burn 2401					
Section B. UST Reason for initi Which portion (Closure Information	ion:(please check :Susp osed:Tank	one) ected Leakl	Piping	ReplacementA Fanks & Piping d:	bandoned				
UST#	Product	Size (gallons)	Tank age	Tank condition	Piping age	Piping condition				
		g								
	<u> </u>									
		<u> </u>	L.:							
Disposal/destructure Location Amount (gal.) a Cank cleaning c Certified hazard	any, will be close ction of removed to and type of waste a company (JST(s); enerated from U; in contact pairs any); tack contacts we beserve	_Date/ M STs:	ethod		Date/				
abandoned", "		stalled", or "not	aware of any of		of size, and status site". Remember:					
UST#	Product	Size (gailons)	Tank age	*Tank Status	Piping Age	*Piping Status				
1	Diesel Zuel	- -	14 years	in use	14 vears	replaced				
2	S. Unleaded		14 years	in usa	14 years	raplaced				
 3	uid-grade unleaded	8,000	14 years	1a use	14 years	replaced				
4	ragular unleaded	8,000			• • • • • • • • • • • • • • • • • • • •	l -				
5	Ketossus nutsaoso	4,000 4,000	14 years		14 years	replaced replaced				
/ork in this sec environmental is form. xcavation size	nt site characteriza tion must be comp I sampling for the	tion: pleted by a profes presence of hazar vation depth (ft):	sional environme rdous materials. / Up to 8 ft Soil type:	ntal consultant A full report fro	or hydrogeologist om the consultant r	with experience nust accompany				
					Prop 1 of 2					

PID Calibration information: Date 9/16/95 Time 16 30 Type of Gas sobut vlena Contamination detected with PID (ppm): Peak 341 pp Depth of peak (ft) 5 ft Avg 133 Soil samples collected for laboratory analysis? Yes # of samples No No
Have soils been polyencapsulated on site? Yes X list amount (co. yeb.): 30 No Have any soils been transported off site? Yes list amount (co. yeb.): No X Location transported to: Name of DEC official granting approval to transport soils: Date: / /_
Amount of soils backfilled. (a. yds.):, Avg. PID
Free phase product encountered? Yesthickness No X Groundwater encountered? Yes X depth(ft) 6 No
Were there existing monitoring wells on site? Yes X (# samples taken 0) No Have new monitoring wells been installed? Yes (# samples taken No X Samples collected from monitoring wells for lab analysis? Yes No X Samples collected from monitoring wells for lab analysis? Yes No X Samples collected from monitoring wells for lab analysis? Yes No X Samples collected from monitoring wells for lab analysis? Yes No X Samples collected from monitoring wells for lab analysis? Yes No X Samples collected from monitoring wells for lab analysis? Yes No X Samples taken
Signature of 1600 Owner or owner's sutherized suprescribbles
As the environmental consultant on site, I hereby certify that the site assessment requirements were performed in accordance with DEC policy and regulations, and that information which I have provided on this form is true and correct to the best of my knowledge.
W. Su Hon Dec: 9-23-96
SITE DIAGRAM
Show location of all tanks and distance to permanent structures, sample points, areas of contamination, potential receptors and any pertinent site information. Indicate North arrow and major street names or route number.



Return total along with complete territories and photographs to the Department of Environmental Conservation, Underground Storage Tank Program within 72 hours of closure.

ATTACHMENT 4

List of Abutting Property Owners



Initial Site Investigation Report Christy's Market, West Dover, Vermont

Lot# RT069 3 acres commercial Christy's Market, Inc. 22 Christy's Drive Brockton, MA 02401

Lot# RT067 1 acre commercial Barber E.G. Trust P.O. Box 37 West Dover, VT 05356-0037

Lot# 075 8.27 acres commercial Cullen 1985 Trust P.O. Box 306 West Dover, VT 05356-0306

Lot# 071 2 acres commercial R. & E. Teodorini (Trustees) P.O. Box 111 West Dover, VT 05356-0111

Lot # 068 2 acres R1
Fernot Construction
c/o J.A. Fernot
HCR #63 Box 2
West Dover, VT 05356

Lot# 066 1 acre commercial Brook House P.O. Box 38 West Dover, VT 05356-0038

Lot #SA Swiss Alps Condominiums (various owners):

> Nikituk, S & C 296 Neck Rd. Madison, CT 06443

Schletter, D & J 17 Marycrest Rd. West Nyack, NY 10994

Loschiavo, J & S 35 Driftway Rd. Danbury, CT 06811

Petrizzi, M & R 28 Royal Road Rockville Centre, NY 11570



Initial Site Investigation Report Christy's Market, West Dover, Vermont

Knapp, J & C 249 Isinglass Rd. Shelton, CT 06484

Bastek, W & M 430 Park Ridge Lane (Apt. M) Winston Salem, NC 27104

Cohen, R & L 55 Knolls Drive Manhasset Hills, NY 11040

Zacks, L & C 310 West Lake Blvd. Mahopac, NY 10541

ATTACHMENT 5

Limitations



LIMITATIONS

- 1. The sole purpose of the investigation and of this report is to assess the physical characteristics of the Site with respect to the presence or absence in the environment of oil and/or hazardous materials and substances as defined in the applicable state and federal environmental laws and regulations, and to gather information regarding current and past environmental conditions at the Site.
- 2. Corporate Environmental Advisors, Inc. (CEA) derived the data in this report primarily from visual inspections, examination of records in the public domain, interviews with individuals with information about the Site, and a limited number of subsurface explorations made on the dates indicated. The passage of time, manifestation of latent conditions or occurrence of future events may require further exploration at the Site, analysis of the data, and reevaluation of the findings, observations, and conclusions expressed in the report in accordance with local, state, and Federal regulations.
- 3. In preparing this report, CEA has relied upon, and presumed accurate, certain information (or the absence thereof) about the Site and adjacent properties provided by governmental officials and agencies, the Client, and others identified herein. Except as otherwise stated in the report, CEA has not attempted to verify the accuracy or completeness of any such information which is outside of the approved scope of this project.
- 4. The data reported and the findings, observations, and conclusions expressed in the report are limited by the Scope of Work, including the extent of subsurface exploration and other tests. The Scope of Work was defined by the requests of the Client, the time and budgetary constraints imposed the by Client, and the availability of access to the Site.
- 5. Because of the limitations stated above, the findings, observations, and conclusions expressed by CEA in this report are not, and should not be considered, an opinion concerning the compliance of any past or present owner or operator of the site with any federal, state or local law or regulation. No warranty or guarantee, whether express or implied, is made with respect to the data reported or findings, observations, and conclusions expressed in this report. Further, such data, findings, observations, and conclusions are based solely upon site conditions in existence at the time of investigation.



- 6. This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the Agreement and the provisions thereof.
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